## WHAT IS CLAIMED IS:

1	1. A method for forming a second access penetration in a wall of a
2	body lumen having a first access penetration in said wall, said method comprising:
3	introducing a penetrating device inwardly through the first access
4	penetration into the body lumen;
5	positioning a penetrating element of the penetrating device at a target site
6	in the lumen; and
7	advancing the penetrating element outwardly through the wall of the
8	lumen and overlying tissue to form the second access penetration.
1	2. A method as in claim 1, wherein introducing the penetrating device
2	comprises introducing a catheter having a lumen therethrough to the target site and
3	pushing the penetrating device from the catheter, wherein the penetrating element deflects
4	laterally so that it passes through the wall as it is advanced.
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1	3. A method as in claim 2, further comprising rotating the penetrating
2	device to aim the penetrating element prior to pushing the penetrating device from the
3	catheter.
1	4. A method as in claim 3, further comprising viewing a marker on
2	the catheter and/or penetrating device while the device is being rotated to determine when
3	the penetrating device is properly aimed.
l -	5. A method as in claim 2, further comprising anchoring or stiffening
2	at least a portion of the catheter as the penetrating device is pushed from the catheter.
1	6. A method as in any of claims 1 to 5, wherein the penetrating device
2	comprises a guide tube having a lumen therethrough and the penetrating device within the
3	lumen, further comprising removing the penetrating element from the guide tube after the
4	second access penetration has been formed, whereby the guide tube lumen provides a
5	path between the first access penetration and the second access penetration.
1	7. A method as in claim 6, further comprising passing a guidewire
2	through the lumen of the guide tube and withdrawing the guide tube to leave the
3	guidewire in place.

1		8.	A method as in any of claims 1 to 5, wherein the body lumen is a
2	blood vessel.		
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1		9.	A method as in claim 8, wherein the blood vessel is selected from
2	<b>.</b>	•	of arteries, veins, autologous grafts, artificial grafts, and arterio-
3	venous fistula	s.	
1		10.	A method for positioning a guidewire in a body lumen, said
2	method compr	rising:	
3		positio	ning a guide tube between a first access penetration and a second
4	access penetra	tion int	o the body lumen;
5		passin	g a guidewire through the guide tube, and
6		withdr	awing the guide tube to leave the guidewire in place.
1		11.	A method as in claim 10, wherein the body lumen is a blood vessel.
1		12.	A method as in claim 11, wherein the blood vessel is selected from
2	the group cons	sisting o	of arteries, veins, autologous grafts, artificial grafts, and arterio-
3	venous fistula	s.	
1		13.	A method as in any of claims 10 to 12, wherein positioning the
2	guide tube cor	nprises	introducing a penetrating device comprising the guide tube and a
3		-	arough the first access penetration, positioning the penetrating
4			ating device at a target site, advancing the penetrating element
5		-	e wall to form the second access penetration and position the guide
6		_	draw the penetrating element from the guide tube to leave a lumen
7	for receiving t		
1		14.	A mathed as in alaim 12 wherein negitioning the guide tube
1	Guathan a aman		A method as in claim 13, wherein positioning the guide tube oducing a catheter having a lumen therethrough to the target site
2	•		
3		•	rating device from the catheter, wherein the penetrating element
4	deffects latera	ily throi	agh the wall as it is advanced.
1	,	15.	A method as in claim 14, further comprising rotating the
2	penetrating de	vice to	aim the penetrating element prior to pushing the penetrating device
3	from the cathe	eter.	

1		16.	A method as in claim 15, further comprising anchoring or
2	stiffening at least a portion of the catheter as the penetrating device is pushed from the		
3	catheter.		
1		17.	A method as in any of claims 10 to 12, further comprising
2	•		ne device over the guidewire through one of the first and second
3	access penetra	ations at	fter the guide tube has been withdrawn.
1		18.	A method as in claim 17, wherein a second device is introduced
2	over the guide	ewire si	multaneously through the other of the access penetrations.
1		19.	A method for intervening at a target site in a body lumen, said
2	method comp	rising:	
3		positio	oning a guidewire between a first access penetration and a second
4	access penetra	ation int	o the body lumen;
5		introd	ucing a first device through the first access location over the
6	guidewire to t	he targe	et site;
7		introd	ucing a second device through the second access location over the
8	guidewire to t	he targe	et site; and
9		interve	ening at the target site using at least one of the devices.
1		20.	A method as in claim 19, wherein the body lumen is a blood vessel
1		21.	A method as in claim 20, wherein the blood vessel is selected from
2	the group con	sisting o	of arteries, veins, autologous grafts, artificial grafts, and arterio-
3	venous fistula	ıs.	
1		22.	A method as in any of claims 19 to 21, wherein intervening
1			·
2	comprises usi	ng botn	devices.
1		23.	A method as in claim 22, wherein intervening comprises imaging
2	with at least o	ne of th	e devices.
1		24.	A method as in claim 22, wherein intervening comprises deploying

an occluding element from at least one of the devices.

1	25. A method as in claim 24, wherein intervening comprises deploying
2	an occluding element from both of the devices to define an isolated region therebetween.
1	26. A method as in claim 22, wherein intervening comprises disrupting
2	material within the body lumen with one device and collecting the dislodged material
3	with the other device.
1	27. A method as in claim 19, wherein intervening at the target site
2	comprises using at least one device to perform angioplasty, atherectomy, aspiration,
3	filtering, infusion, mechanical thrombectomy, endarterectomy, luminal prosthesis
4	placement, lysis, or thrombolysis.
1	28. A method as in claim 19, wherein positioning the guidewire
2	comprises:
3	positioning a guide tube between the first access penetration and the
4	second access penetration into the body lumen;
5	passing the guidewire through the guide tube; and
6	removing the guide tube to leave the guidewire in place.
1	29. A method as in claim 28, wherein positioning the guide tube
2	comprises introducing a penetrating device comprising the guide tube and a penetrating
3	element through the first access penetration, positioning the penetrating element of the
4	penetrating device at a target site, advancing the penetrating element outwardly through
5	the wall to form the second access penetration and position the guide tube therein, and
6	withdraw the penetrating element from the guide tube to leave a lumen for receiving the
7	guidewire.
1	30. A method as in claim 29, wherein positioning the guide tube
2	further comprises introducing a catheter having a lumen therethrough to the target site
3	and pushing the penetrating device from the catheter, wherein the penetrating element
4	deflects laterally through the wall as it is advanced.
1	31. A method as in claim 30, further comprising rotating the
2	penetrating device to aim the penetrating element prior to pushing the penetrating device
3	from the catheter.

1		32.	A method as in claim 30, further comprising anchoring a distal end
2	of the catheter	r as the	penetrating device is pushed from the catheter.
1		33.	A device for positioning a filament in a body lumen, said device
2	comprising:		
3		a cath	eter which can be introduced through a first access penetration into
4	the body lume	en; and	
5		means	s advancable from the catheter for creating a second access
6	penetration an	ıd provi	iding a filament path between said first and second access
7	penetrations.		
1		34.	A device as in claim 33, wherein the catheter has at least one lumen
2	therethrough a	and the	advancable means is reciprocatably received in the catheter lumen.
1		35.	A device as in claim 34, wherein the advancable means has a pre-
2	formed tip wh	ich def	lects laterally as it is advanced from the catheter.
1		36.	A device as in any of claims 33 to 35, wherein the advancable
2	means compri	ses a gu	uide tube having a lumen therethrough and a penetrating element
3	removable rec	eived i	n the lumen and extending from a distal tip of the guide tube,
4	wherein the po	enetrati	ng means can be withdrawn from the guide tube after the guide tube
5	has been place	ed betw	een the access penetrations to leave the guide tube lumen as the
6	filament path.		
1		37.	A device as in claim 36, wherein the penetrating element is a stylet.
1		38.	A device as in any of claims 33 to 35, further comprising an
2	expandable an	ichor di	sposed over at least a portion of the catheter.
1		39.	A device as in claim 36, further comprising a support tube having a
2	lumen for rece	eiving t	he guide tube therethrough.
1		40.	A kit comprising:
2		a pene	etrating device having a penetrating element, and
3		instruc	ctions for use according to any of claims 1 to 5.

1	41. A kit comprising:
2	a guide tube; and
3	instructions for use according to any of claims 10 to 12